

integrated
precondition
claim 1

- 5

Sub A1

5

claim 11 wherein the other of said gaps is a preconditioning gap, said preconditioning gap being wider than said write gap.

$$\begin{matrix} 3 \\ 2 \\ 12 \end{matrix}$$

4.
12

3

4

7

19. The magnetic recording head of claim 18 wherein said head comprises a write gap aligned with said preconditioning gap.

20. The magnetic recording head of claim 19 wherein said preconditioning gap is wider than said write gap.

21. The magnetic recording head of claim 20 wherein each of said gaps comprise a pair of pole pieces, with one of each pair of said pole pieces being magnetically energized.

22. The magnetic recording head of claim 21 wherein said gaps share a common pole piece, said head thereby having three pole pieces to form said two gaps.

23. The magnetic recording head of claim 20 wherein said pairs of pole pieces surround a portion of a single coil, said single coil thereby energizing both of said gaps.

24. The magnetic recording head of claim 22 wherein said pole pieces comprise a first pole piece, a second pole piece having a single coil wrapped therearound and having an end thereof magnetically coupled to the first pole piece, and a third pole piece having an end thereof magnetically coupled to the second pole piece.

25. The magnetic recording head of claim 24 wherein said head is a ring head.

26. A magnetic recording head having a write gap and an adjacent gap whose magnetic flux interacts with the write gap flux to produce an increased magnetic write field gradient.

27. The magnetic recording head of claim 26 further comprising a coil for magnetically energizing the adjacent gap.

28. The magnetic recording head of claim 26 wherein the same coil energizes both the write gap and the adjacent gap.

29. A magnetic recording head with an integrally formed preconditioning gap adjacent a write gap.

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